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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091,373	03/04/2002	Hiroshi Ito	ARC920010125US1	7246
23980 7	23980 7590 11/01/2006		EXAMINER	
MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C 1400 PAGE MILL ROAD			WALKE, AMANDA C	
	DE MILL ROAD LTO, CA 94304-1124		ART UNIT	PAPER NUMBER
			1752	
			DATE MAILED: 11/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/091,373	ITO, HIROSHI			
		Examiner	Art Unit			
		Amanda C. Walke	1752			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	)⊠ Responsive to communication(s) filed on <u>31 January 2006</u> .					
2a)□	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	ion of Claims					
4)□ 5)□ 6)⊠ 7)□	Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) <u>1-31</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers	,				
9) The specification is objected to by the Examiner.						
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
1) Notic 2) Notic 3) Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

## **DETAILED ACTION**

Applicant has argued that the Araki '724 reference is not applicable as prior art therefore the rejection of record has been withdrawn and a new rejection follows.

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Araki et al (WO 01/74916 A1).

Araki et al disclose a fluorine-containing polymer for use as a chemically amplified photoresist. The polymer includes a variety of polymers and monomers, and may take the structure: M1-M2-M3-N, wherein M1 is of structure similar to the instant monomer II (see pages 189-194), M2 is an alicyclic monomer, M3 is of structure similar to that of the instant monomer I (see pages 202-208; see especially M3-3 on page 205), and N is selected from monomers such as ethylene, vinyl ether, allyl, and other monomers which are suitable to be combined with the novel fluorine-containing monomers (claim 16). The monomers described on pages 189-208 comprise groups falling within the scope of the instant claims 2-14. The composition further comprises an acid generator (such as an onium salt as described on pages 97-110), and is a UV, specifically VUV resist (157 nm; see abstract). Also, a solvent, an organic base, and optionally a crosslinker should the resist be a negative resist. The resist is then employed in a conventional method of forming a resist pattern (see examples in columns 215-219).

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Given the teachings of the references, it would have been obvious to one of ordinary skill in the art to prepare the material of Araki et al choosing to employ the M1-M2-M3-N polymer either alone, or in combination with an additional novel polymer taught by the reference, which comprises monomers meeting the structural limitations of the instant monomers I and II, with reasonable expectation of achieving a material having high etching resistance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Amanda C Walke Primary Examiner Art Unit 1752

ACW October 30, 2006